



EUCO TUF-STRAND SF™ SAVES TIME ON NEW YORK ROAD REPAIR

Partnership Challenge

- Ensure a tough concrete overlay for long lasting roadway repair
- Provide a cost efficient alternative to conventional steel reinforcement
- Use the most up-to-date technologies to make quicker road repairs

Engineered Solution

The Port Authority of New York and New Jersey manages one of the largest, busiest and most critical transportation hubs in the nation. Heavy traffic imposes an enormous amount of wear and tear. In New York, downtime for road maintenance has a crippling effect. This network demands world-class performance from the people and products that keep the concrete infrastructure serviceable. On a recent roadway rehabilitation project in Port Newark, the Euclid Chemical Company met the challenge with TUF-STRAND SF™. This unique, patented blend of self-fibrillating polypropylene/polyethylene fibers successfully replaces welded wire mesh and steel fibers in a wide variety of applications. TUF-STRAND SF reduces or eliminates plastic shrinkage cracking. It is designed to evenly disperse in concrete, providing increased flexural toughness, as well as increased impact and fatigue resistance. As is typical in overlay construction, a bond coat needs to be applied to ensure bond integrity.

The problem with using conventional steel reinforcement is that the bond coat will dry before the concrete overlay can be placed. With TUF-STRAND SF, application of the bond coat occurred only minutes before the overlay was placed. This also made the construction process quicker, minimizing the length of time that roads were closed. For this project, Euclid Chemical's synthetic structural fibers produced a tougher concrete for a longer lasting repair and proved EUCO TUF-STRAND SF a cost efficient and time saving alternative to steel reinforcement.



TUF-STRAND SF disperses evenly in concrete



TUF-STRAND SF can be added at the batch plant or on the job site



TUF-STRAND SF reduces labor costs and eliminates safety hazards

Features

- Eliminates welded wire mesh/steel fibers
- Patented EUCO TUF-STRAND SF™

Benefits

- Cost efficient construction process
- Superior performance characteristics
- Reduce or eliminate plastic shrinkage cracking

Applications

- All concrete construction projects requiring welded wire mesh or steel fibers

TUF-STRAND SF—PORT AUTHORITY OF NY/NJ

